

Proposed 12 Classroom & Labs at
Sn.Maradhoo,Maradhoo Feydhoo Irushadhiyya School
(03 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



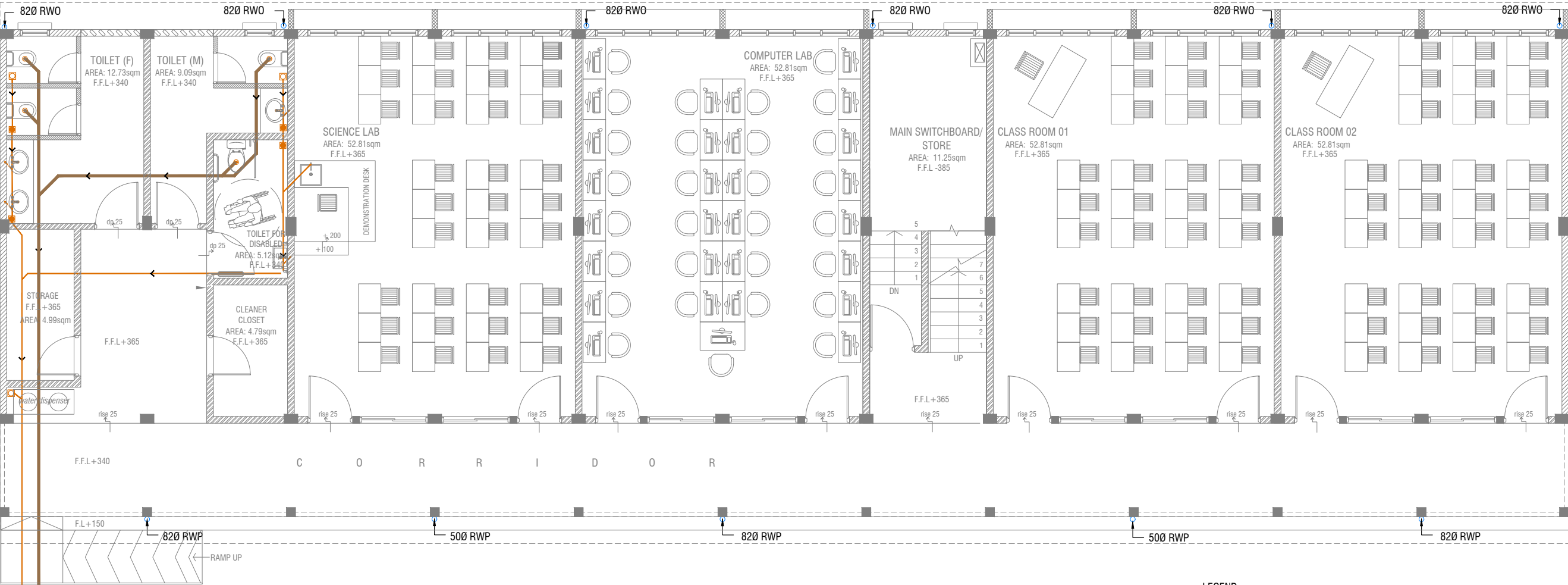
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CONNECT TO EXISTING MAIN SEWER PIPE IF SEWERAGE PROJECT IS COMPLETED, IF NOT CONNECT TO SEPTIC TANK

- LEGEND
- FG

FLOOR GULLY
- FD

FLOOR DRAIN
- WM

40 Ø STUB FOR WASHING MACHINE
- SP

110 Ø SOIL PIPE
- SVP

110 Ø SOIL VENT PIPE
- WP

82 Ø WASTE PIPE
- WVP

82 Ø WASTE VENT PIPE
- WP

40 Ø WASTE PIPE
- RWP

82/50 Ø RAINWATER PIPE
- RWO

82/50 Ø DRAIN OUTLET
- CD

25 Ø DRAIN PIPE
- MHVP

50 Ø MANHOLE VENT PIPE

NOTE:
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

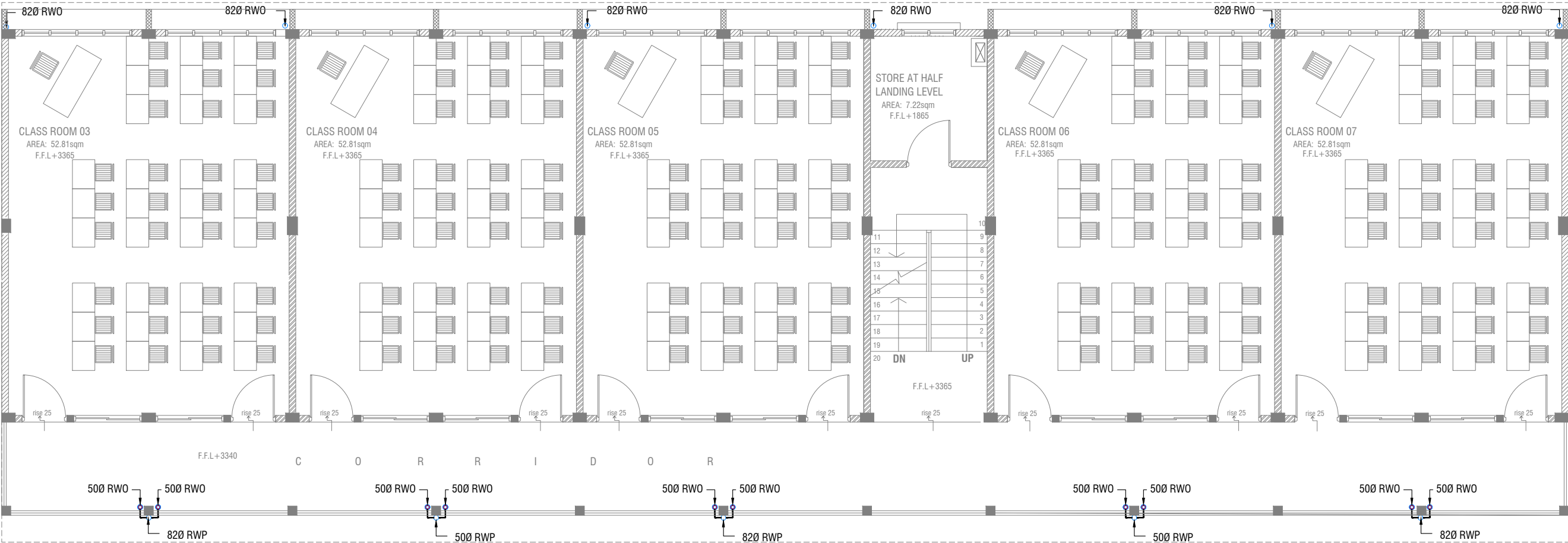
GROUND FLOOR DRAINAGE LAYOUT



Sn.Maradhoo,Maradhoo Feydhoo Irushadhiya School - 12 Classroom (03 Storey)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	1	
Architect: Mariyam Irasha Shareef	2	
Engineer: Mohamed Muhtalib Waleed	3	
Drawn by: Mariyam Leevan Jaleel	4	
Services: Aishath Ahmed	5	
Interior: -	6	



FIRST - SECOND FLOOR DRAINAGE LAYOUT



LEGEND

- FG FLOOR GULLY
- FD FLOOR DRAIN
- WM 40 Ø STUB FOR WASHING MACHINE
- SP 110 Ø SOIL PIPE
- SVP 110 Ø SOIL VENT PIPE
- WP 82 Ø WASTE PIPE
- WVP 82 Ø WASTE VENT PIPE
- WP 40 Ø WASTE PIPE
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

NOTE:













- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.

Sn.Maradhoo,Maradhoo Feydhoo Irushadhiya School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: April 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed
Interior: -

Rev no	Date
1	
2	
3	
4	

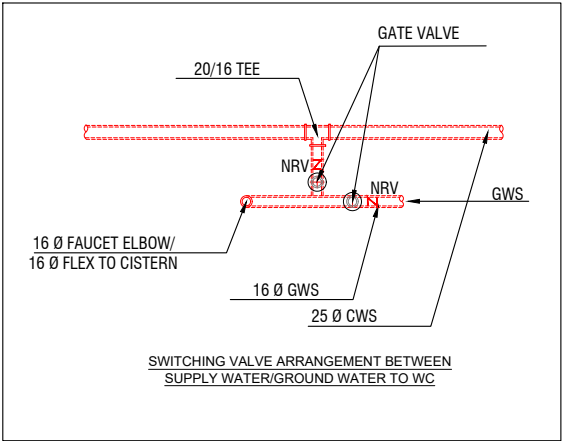
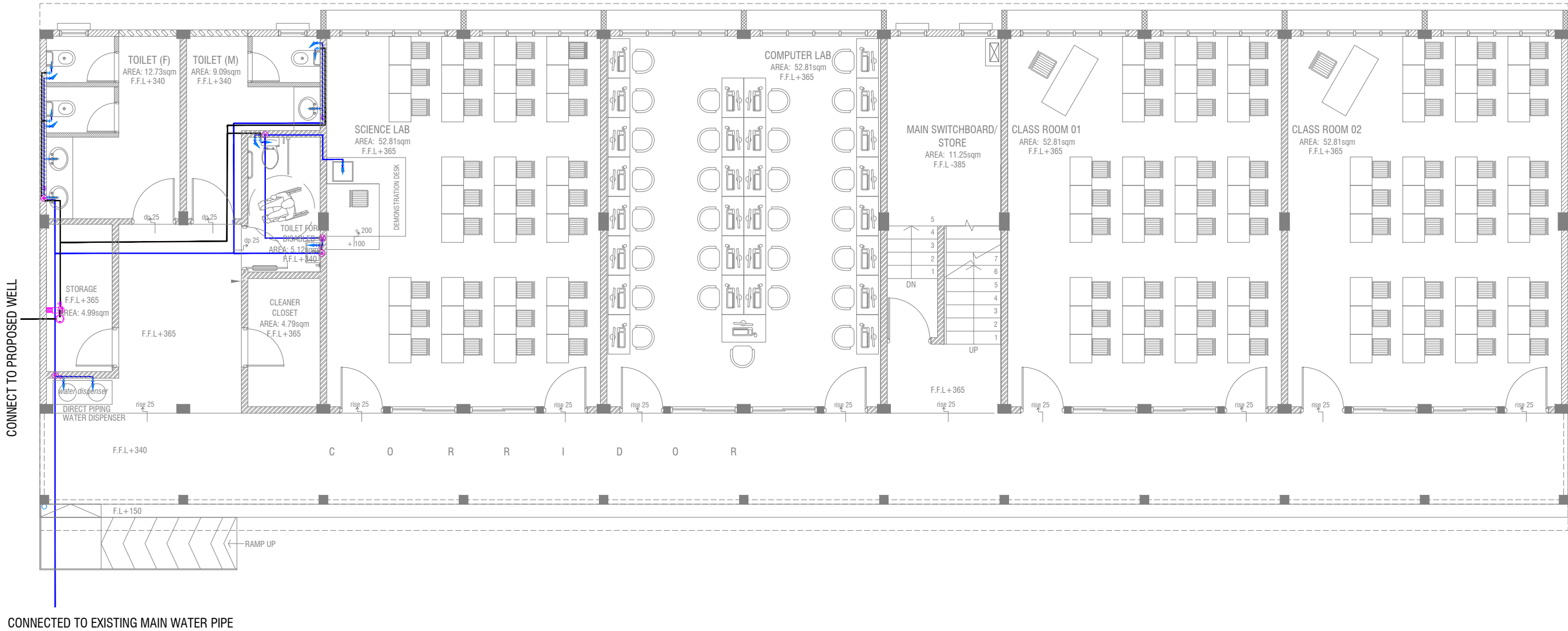


- LEGEND**
- | | | |
|------|---|-------------------------------|
| FG |  | FLOOR GULLY |
| FD |  | FLOOR DRAIN |
| WM |  | 40 Ø STUB FOR WASHING MACHINE |
| SP |  | 110 Ø SOIL PIPE |
| SVP |  | 110 Ø SOIL VENT PIPE |
| WP |  | 82 Ø WASTE PIPE |
| WVP |  | 82 Ø WASTE VENT PIPE |
| WP |  | 40 Ø WASTE PIPE |
| RWP |  | 82/50 Ø RAINWATER PIPE |
| RWO |  | 82/50 Ø DRAIN OUTLET |
| CD |  | 25 Ø DRAIN PIPE |
| MHPV |  | 50 Ø MANHOLE VENT PIPE |



GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100

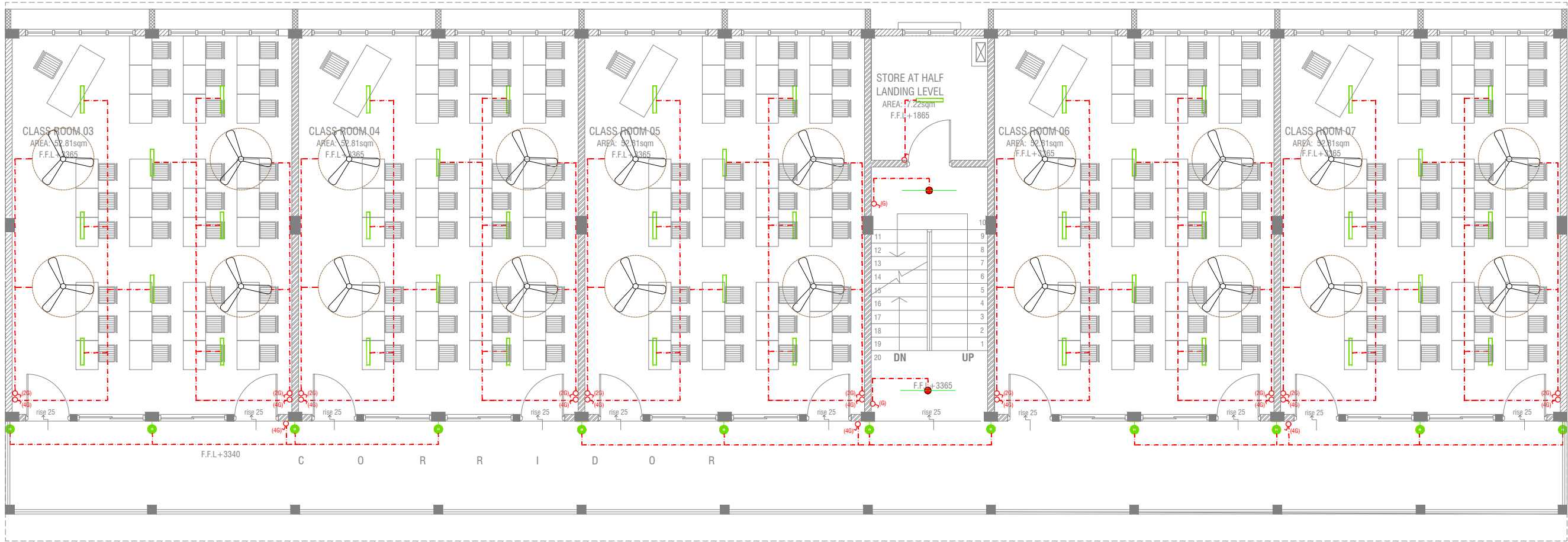


- LEGEND
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL
 - CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - GROUND WATER SUPPLY

NOTE:
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

Sn.Maradhoo,Maradhoo Feydhoo Irushadhiya School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006	Date: April 2021
Architect : Mariyam Irasha Shareef	Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel	Services : Ashath Ahmed
Rev no	Date
-	-
-	-
-	-
-	-



FIRST - SECOND FLOOR LIGHTING LAYOUT



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Sn.Maradhoo,Maradhoo Feydhoo Irushadhiya School - 12 Classroom (03 Storey)

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Date: April 2021	-	-
Architect : Mariyam Irasha Shareef	-	-
Engineer : Mohamed Munthaliq Waleed	-	-
Drawn by : Mariyam Leevan Jaleel	-	-
Services : Alshath Ahmed	-	-
Interior : -	-	-

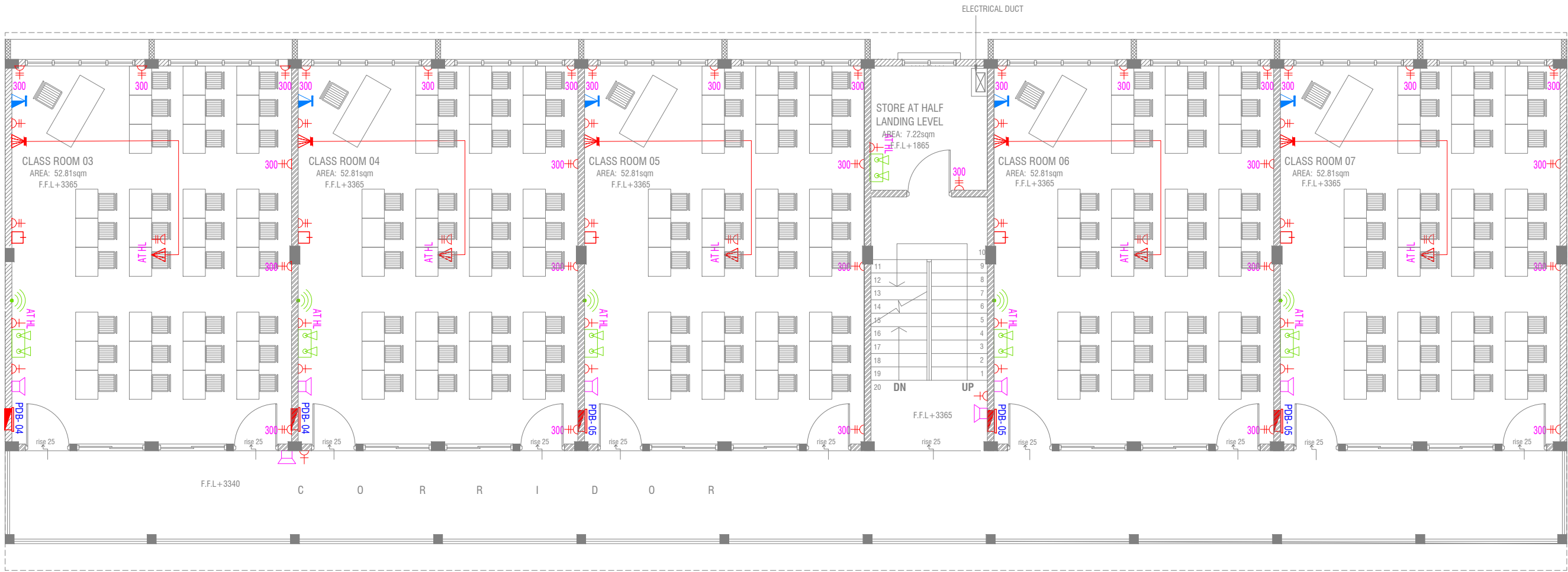
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Title: First - Second Floor
Lighting Layout

Page: EL 02-02

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FIRST - SECOND FLOOR POWER LAYOUT



- NOTE:
- 1. ALL WIRING TO BE OF APPROVED STANDARDS
 - 2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
 - 3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
 - 4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
 - 5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

- LEGEND
- TELEPHONE OUTLET (RJ11, CONNECTOR)
 - 13A POWER OUTLET
 - 13A TWIN SOCKET OUTLET
 - HDMI,VGA & RAC AV SOCKET
 - DISTRIBUTION BOX
 - SPEAKERS
 - HDMI,VGA & RAC AV TWIN SOCKET
 - TWIN COMPUTER NETWORK OUTLET
 - DATA POINT
 - TWO GANG / TV SOCKET

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO CHECK IF THE EXISTING MAIN PANEL BOARD CAN CATER THE PROPOSED BUILDING, IF NOT, TO SUPPLY AND INSTALL PANEL BOARD WITH KWH METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE

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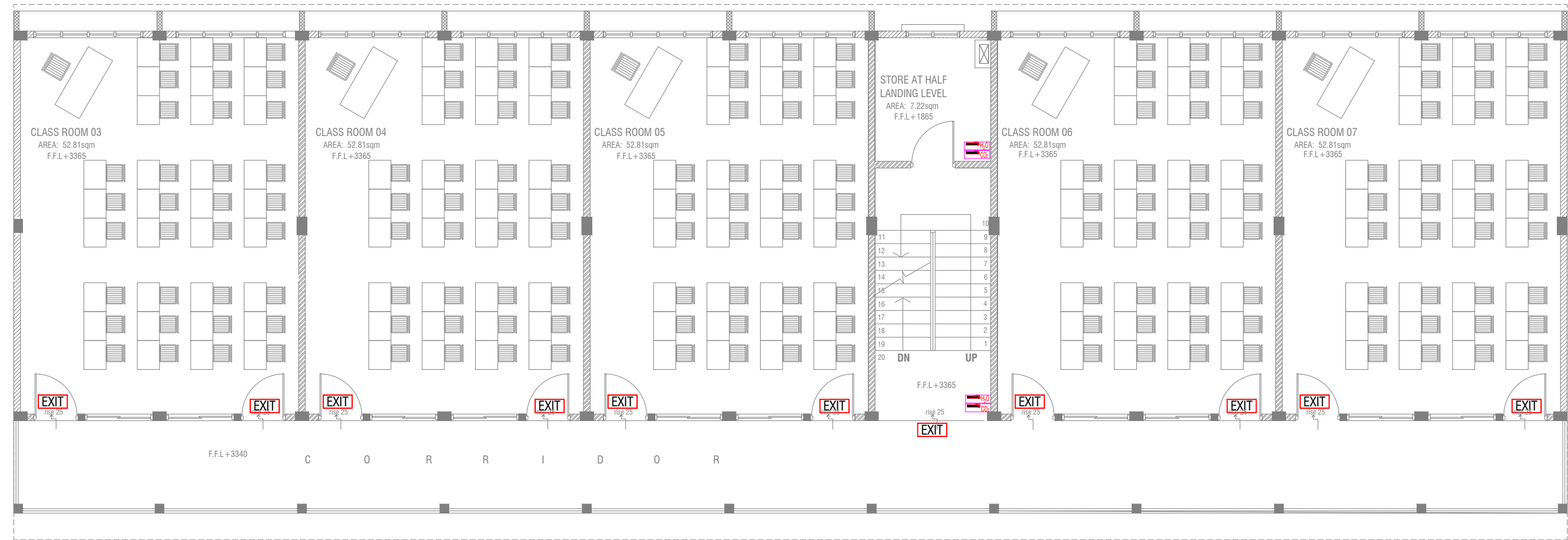
Project Number: RI/2020/006	Rev no	Date
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Engineer : Mohamed Muththalib Waleed	--	-----
Drawn By : Mariyam Laveen Jaleel	--	-----
Services : Aishath Ahmed	--	-----
Interior : -	--	-----



H₂O EXTINGUISHER (LOAD: 9L)
IN POLYCARBONATE ENCLOSURE(TYP.)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.

-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED, SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM



FIRST - SECOND FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

EXIT

EXIT SIGN



CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)



H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRAKET SHALL BE HOT DIPPED GALVANIZED TO 100MM 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

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Architect : Mariyam Irasha Shareef

Engineer : Mohamed Muththailb Waleed

Drawn by : Mariyam Leevan Jaleel

Services : Aishath Ahmed

Interior : -

Rev no	Date
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-	-
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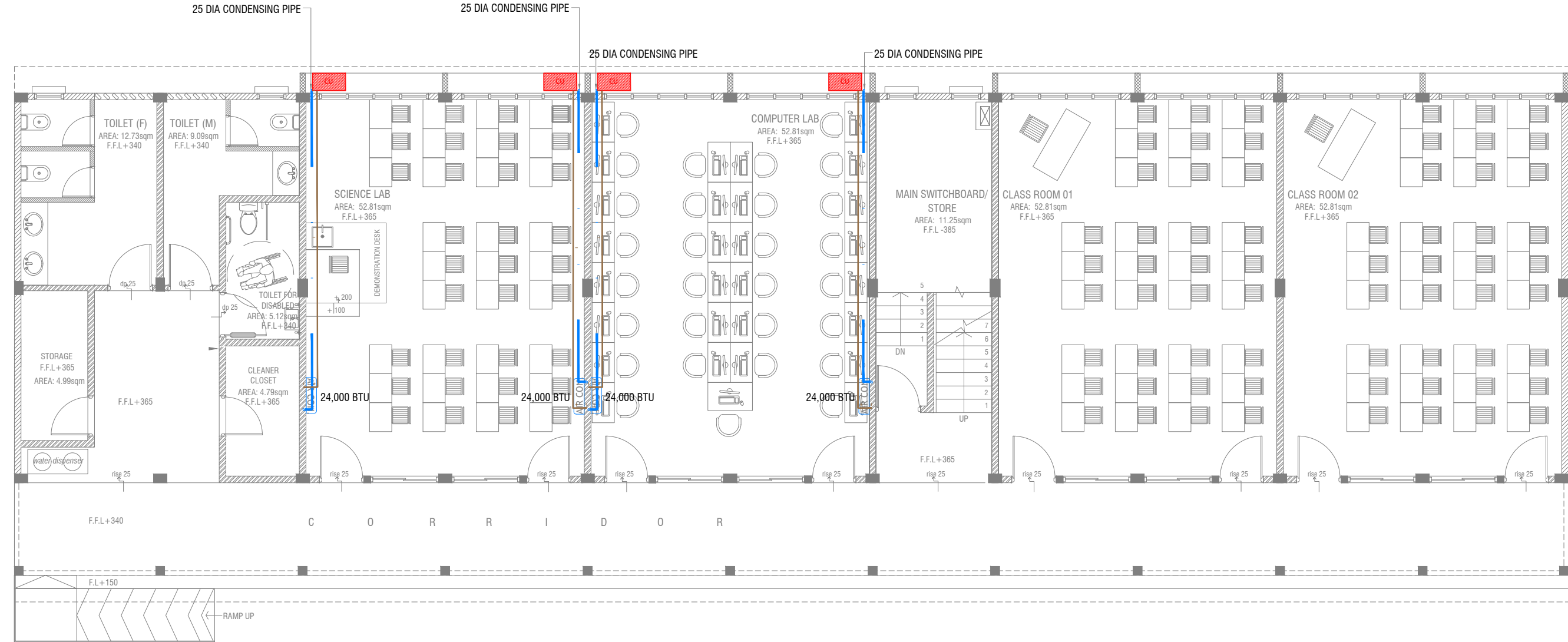


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Title: First - Second Floor
FDP Layout

Page: FDP 02-02



GROUND FLOOR ACV LAYOUT

SCALE 1:100



LEGEND

- REFRIGERANT PIPES
- 25 Ø CONDENSATE DRAIN PIPE
- CONDENSING UNIT

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Interior : -	--	-----



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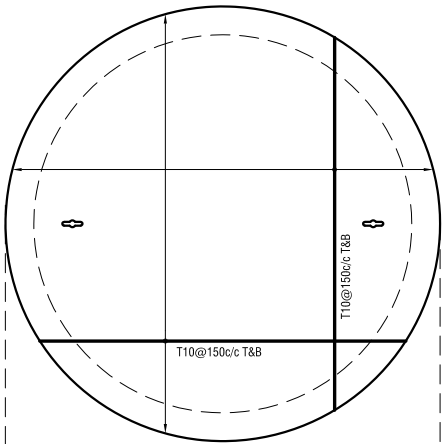
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Title: Ground Floor
ACV Layout

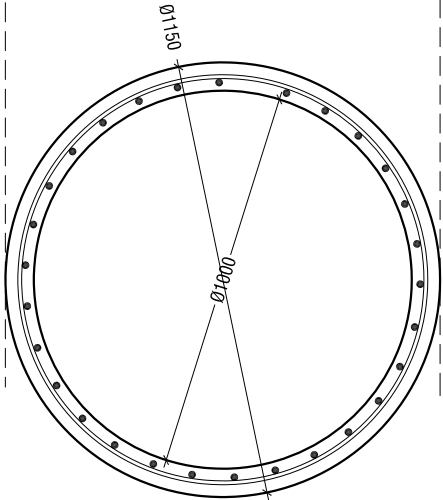
Page: ACV 01-01

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WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

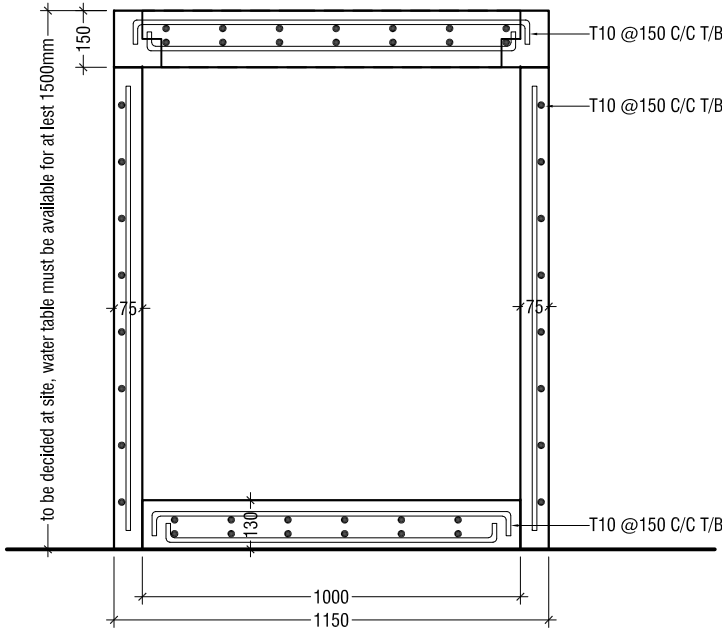


WATER TANK DETAILS

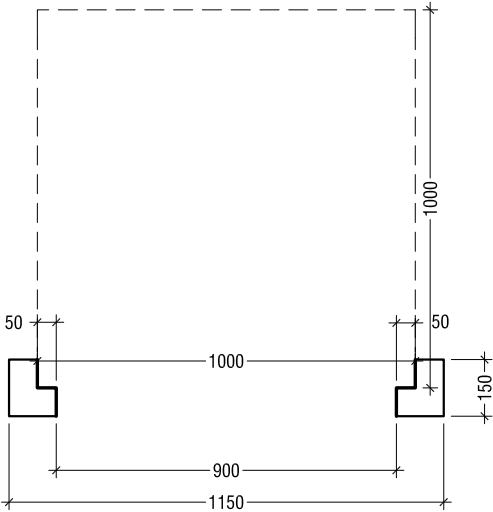
SCALE 1:20



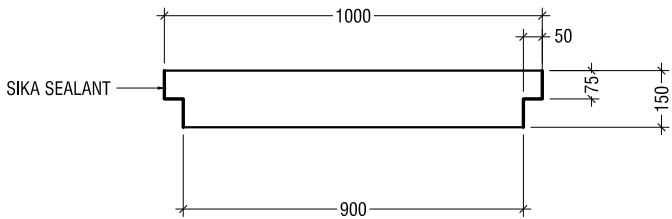
WATER TANK SECTION



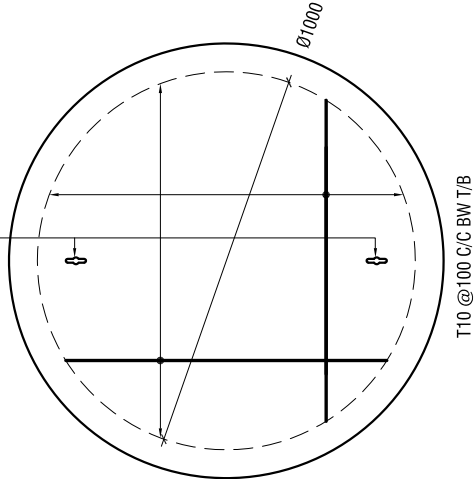
ELEVATION



SECTION



PLAN



NOTE:

- ALL CONCRETE WORKS BELOW GROUND AND AT TERRACE LEVEL TO BE TREATED WITH 'SIKA' WATERPROOFING CHEMICAL OR EQUIVALENT
- PROVIDE PROVISION FOR WATER ENTRANCE THROUGH THE BASE

WATER TANK LID DETAILS

SCALE 1:20



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Services : Ashath Ahmed

Interior : -

Rev no	Date
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